**Tutorial 1:**

SsYy

**Assortment of Ss alleles:**

The gametes from the SsYy parent will receive one of the two alleles Ss.

Half will receive the dominant \_\_\_\_\_ allele, and half the recessive \_\_\_\_\_ allele.

**Assortment of Yy alleles:**

SsYy

The gametes from the \_\_\_\_\_\_\_\_\_ parent will receive one of the two alleles Yy.

Half will receive the dominant \_\_\_\_\_ allele, and half the recessive \_\_\_\_\_ allele

**Tutorial 2:**

**Predicting the genotype of offspring**

Review of tutorial #1

**Punnett Square**

Why draw a 4 by 4 Punnett square?

**Gamete from parent 1 Gamete from parent 2**

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SY Sy sY sy



**Alleles from parent 1 and 2**

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|  |  |  |  |

SY Sy sY sy

SY

Sy

sY

sy

**Predicting the Phenotype of offspring**

**Spherical yellow phenotype:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Spherical green phenotype:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_**

**Dented yellow phenotype:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_**

**Dented green phenotype:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

A phenotypic ratio of \_\_\_:\_\_\_\_:\_\_\_\_:\_\_\_\_ is predicted for the offspring of

a \_\_\_ \_\_\_ \_\_\_ \_\_\_ x \_\_\_ \_\_\_ \_\_\_ \_\_\_ dihybrid cross.